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United States Patent [16]
DeLorme et al.[14] Patent Number 5,948,040
[15] Date of Patent Sep. 7, 1999[16] TRAVEL RESERVATION INFORMATION
AND PLANNING SYSTEM[17] Inventors: David M. DeLorme, Yarmouth; Keith
A. Gray, Orono; E. Angus Ferguson, Portland, all of Me.[18] Assignee: DeLorme Publishing Co., Yarmouth,
Me.

[19] Appl. No.: 08/197,471

[20] Filed: Feb. 4, 1997

Related U.S. Application Data

[21] Continuation-in-part of application No. 08/041,473, filed 12/19/92, Pat. No. 5,621,974, which is a continuation-in-part of application No. 07/912,124, filed 01/12/1992, Pat. No. 5,577,375, which is a continuation-in-part of application No. 07/262,277, filed 04/14/1994, and a continuation-in-part of application No. 07/272,426, filed 04/14/1994.

[22] Int. Cl. G06F 18/00, G06C 21/00
[23] U.S. Cl. 701/201; 701/208; 701/211;
740/500; 740/510[24] Field of Search 701/201, 202,
701/207, 208, 211, 212, 213, 201/2,
5, 340/584, 585, 586, 591, 592

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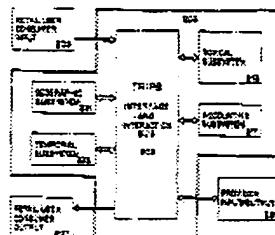
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[17] ABSTRACT

Computerized travel reservation information and planning system that provides "easyridor" routes in vehicle mode, for pedestrian and transportation modes. Each print or electronic document can include four or eight segments each for associated destination and/or source. **WHEN**, **WHAT**, **WHERE**, **WHY** and **HOW** source and destination route inquiries involving selectable geographic, logical, sequential and chronological data routes and related processes. Sub-processes provide further capabilities, e.g. routing, logical searching, matching of search elements, distance, cycle time, route related library, scheduling, trip budgeting, route plan, travel arrangement, availability of other products, service offers, destination information links, route or application preferences or priority, cost, time, and other provider preferences. Online computer-based reservation system enables users of selectable travel information and resources to generate travel routes, route planning, destination database, route pick types of directions or accommodations, within a user-selected region around route of travel. Users engage in an iterative planning process, reviewing or adding travel plans, reviewing travel of alternate routes, selecting route of interest, prioritizing, comparing times and costs of transportation options, in order to achieve a satisfactory travel plan. The system provides printed or electronic output that may include any one or combination of itinerary, address, set of travel maps, customized calendar, electronic mail, or forms of electronic commerce, and a printed copy of route, destination confirmation, ticket and/or electronic coupon code, with means for automated recognition and processing. Mobile users, including GPS-based users, can access the system via wireless communication links.

50 Claims, 14 Drawing Sheets



US5970457A

United States Patent [65] **Patent Number:** 5,970,457
Braast et al. **[66] Date of Patent:** Oct. 19, 1999

[54] **VOICE COMMAND AND CONTROL**
MEDICAL CARE SYSTEM

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[15] **Int. Cl.:** G16H 15/08

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[54] **Field of Search:** 704/213, 220; 704/214, 221, 225, 231; 434/110

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